Descriptive Analysis of COVID-19 Clinical Trials Curated on the

CURE ID Platform





Paul, Parvesh¹; Charles, Reema³; Duggal, Mili²; Borkowski, Katarzyna²; Nhundu, Belinda³; Stone, Heather²; Sacks, Leonard²; Southall, Noel¹; Gorobet, Serghei¹; Nieves, Dominic¹; Sheils, Timothy¹; Geng, Ruby¹; Garcia Aviles, Marco¹ Author Affiliations: ¹NCATS/NIH, ²FDA, ³C-Path

Introduction

internet-based data repository (https://cure.ncats.io/explore), developed collaboratively by FDA and NCATS/NIH. It is designed to capture realworld clinical outcome data to advance drug repurposing and inform future studies and clinical trials for infectious diseases with high unmet medical need. It also serves as a repository of clinical trials curated from https://www.clinicaltrials.gov intention of keeping infectious diseases community updated on the various clinical trials underway.

Materials and Methods

The current study is a descriptive analysis of various therapeutics in clinical trials to treat COVID-19 on the CURE ID platform. Having a panoramic view of the various drugs in clinical trials and the efforts being undertaken will keep the academic community informed and help prevent duplication of efforts amidst the current pandemic.

Using 'clinicaltrials.gov', we selected those Approved for marketing 0.1% trials addressing therapeutics for COVID-19 and reviewed the drugs used, their current Figure 3. Distribution of clinical trials by status of study status and the phases of development.

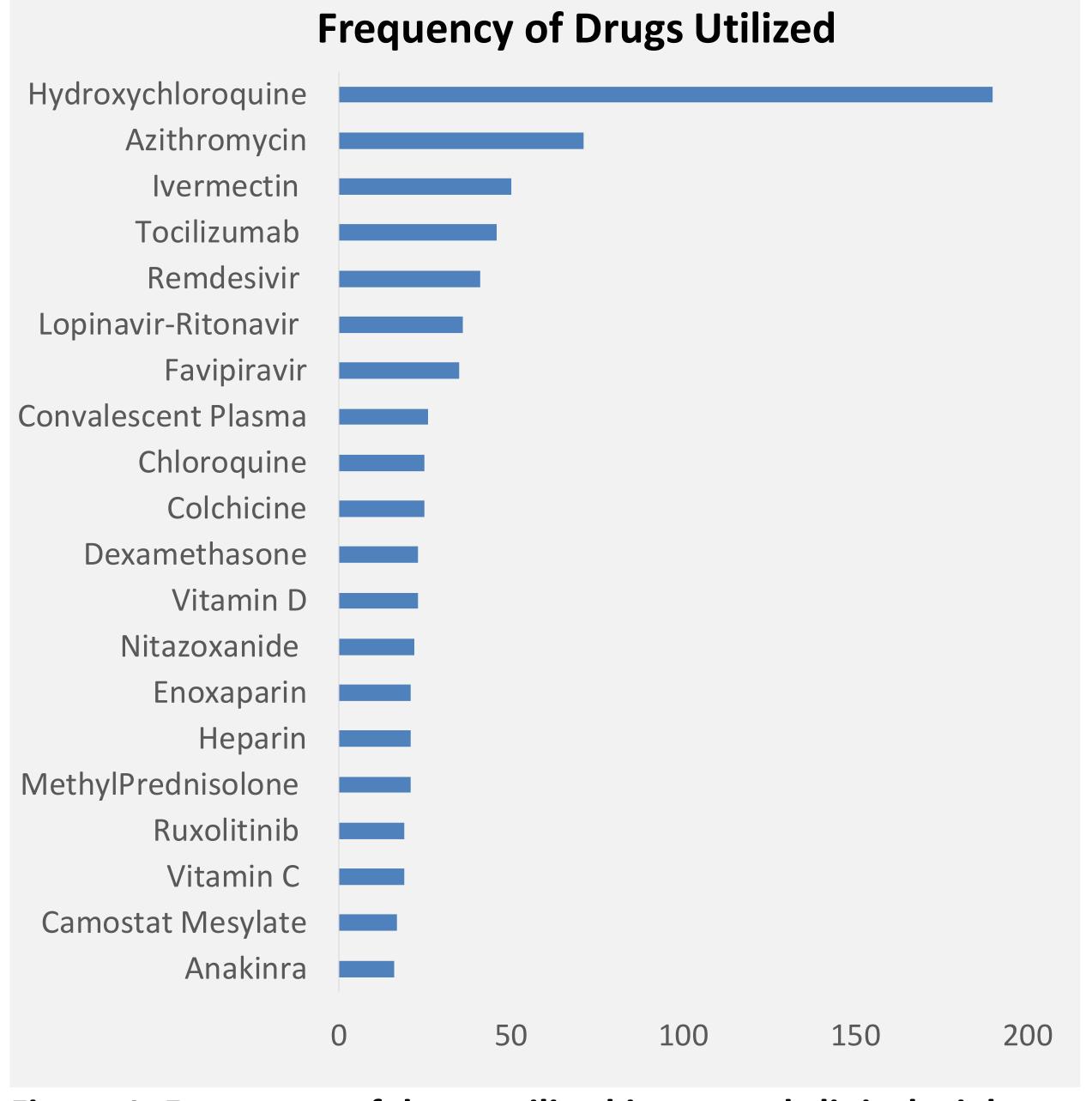
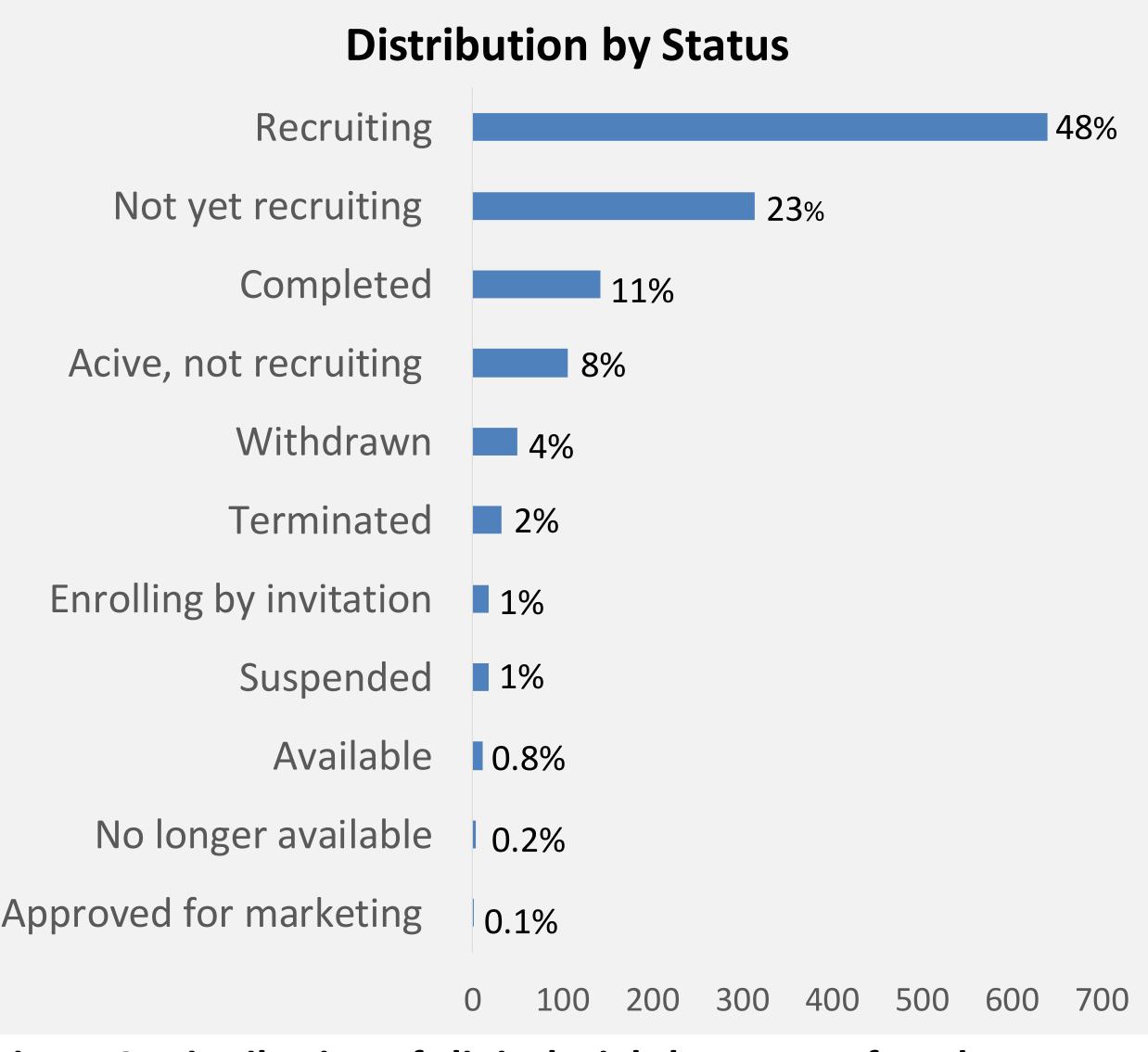


Figure 1. Frequency of drugs utilized in curated clinical trials.



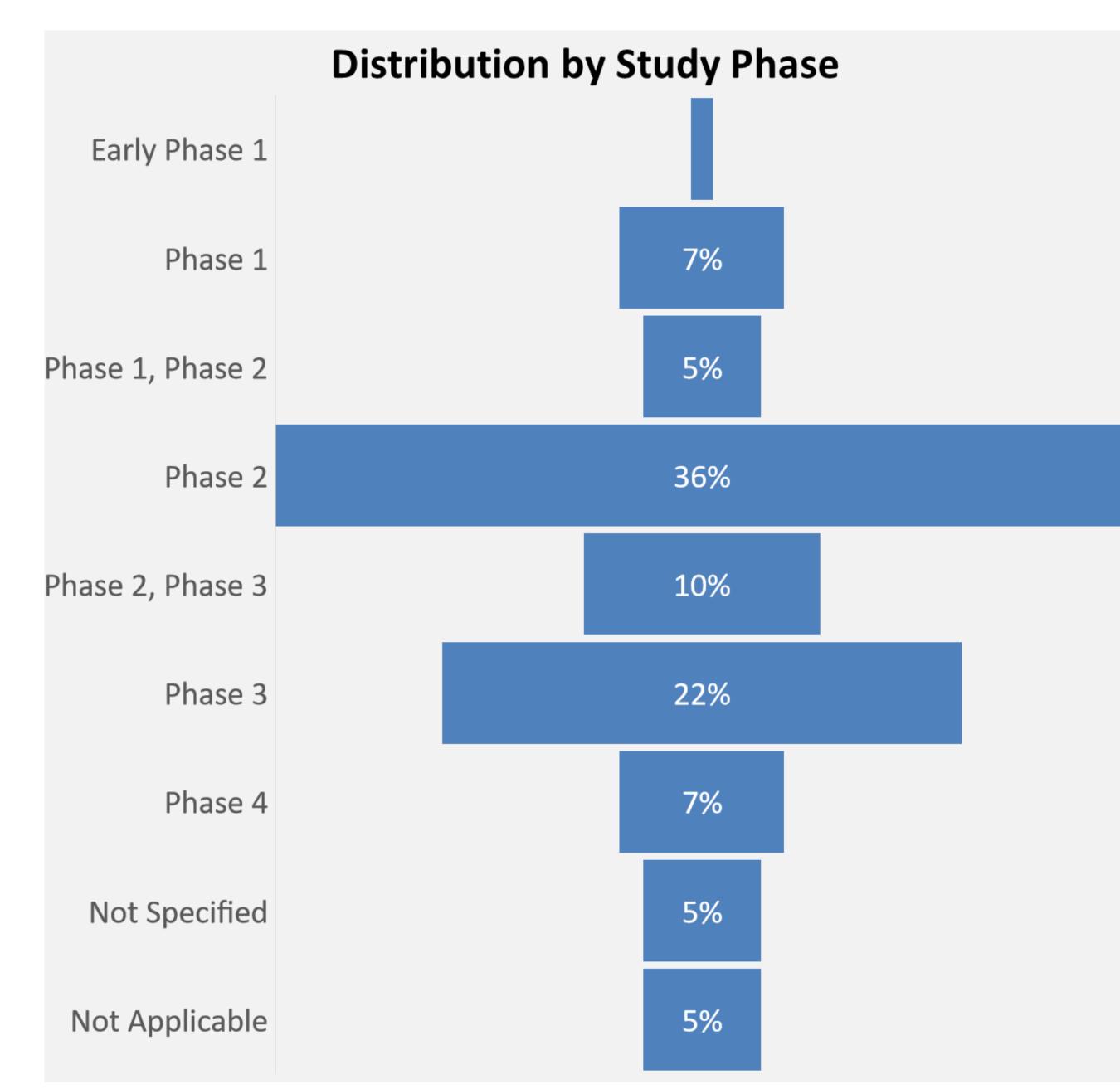


Figure 2. Distribution of clinical trials by study phase.

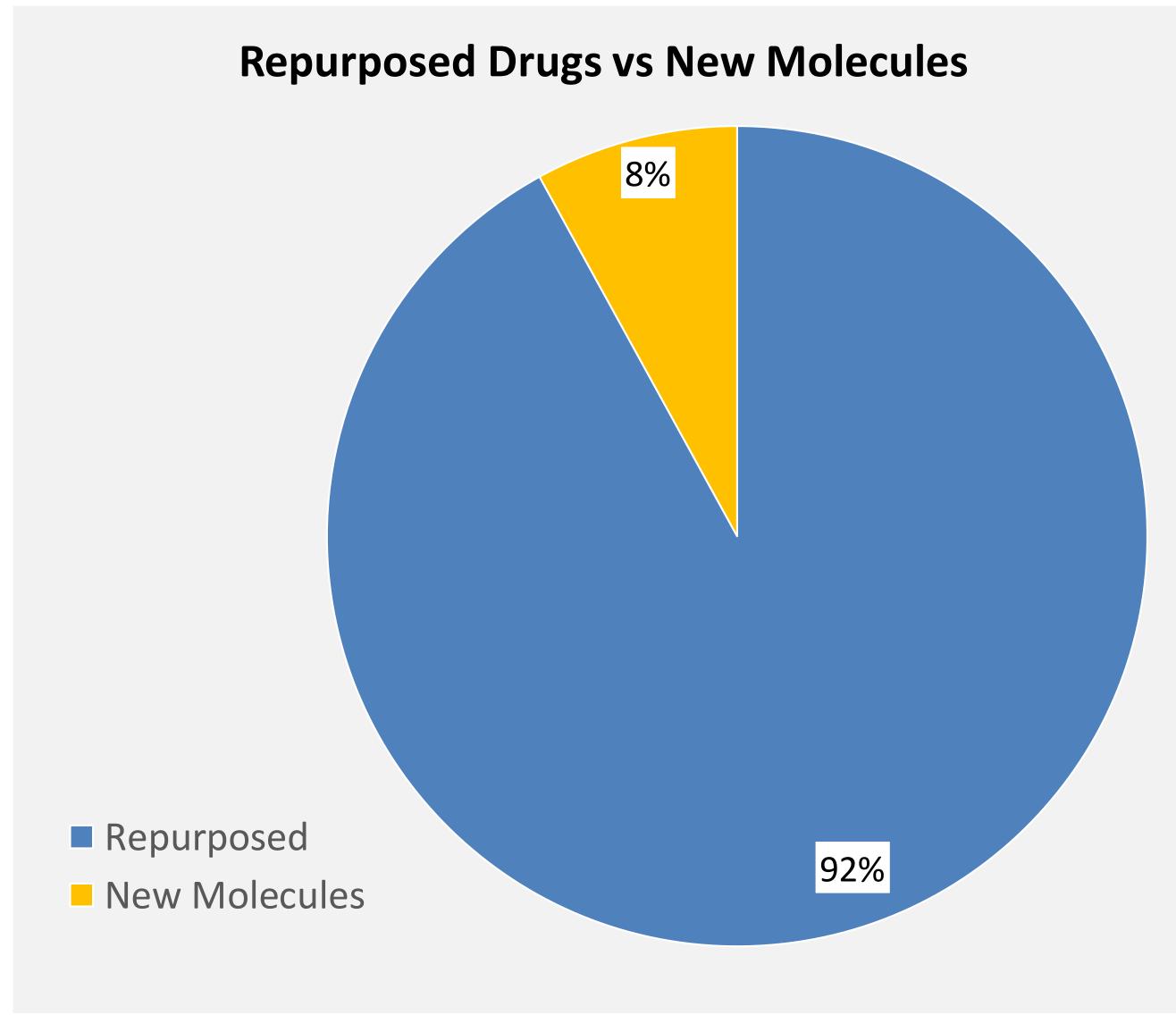


Figure 4. Frequency of repurposed drugs and new molecules.

Disclaimer

Results and Discussion

As of February 2021, out of 1,348 clinical trials and 644 drugs, hydroxychloroquine (n=190) was the most investigated drug, azithromycin followed (n=71),ivermectin (n=50), tocilizumab (n=46), lopinavir-ritonavir (n=41),remdesivir (n=36), favipiravir (n=35), convalescent plasma (n=26), chloroquine (n=25), and colchicine (n=25).Dexamethasone, D, nitazoxanide, enoxaparin, vitamin and methylprednisolone had more than 20 clinical trials each. Thirty-six percent of the drugs were in phase two, 10% were in phase 2/3 and 22% were in phase 3. Eleven percent of the trials were completed and 48% were still recruiting at the time of analysis. Remdesivir was the drug approved for marketing. Majority drugs were repurposed.

Conclusion

Several repurposed and novel drugs are being investigated to treat COVID-19. Our platform provides a broad view of the various drugs and serves to keep the scientific community informed. This may also help prevent duplication of efforts amidst the current pandemic.

This poster reflects the views of the authors and should not be construed to represent NIH or FDA's views or policies.